

Release notes for ENDF/B Development dec-003\_Li\_010  
evaluation

**ENDF**  
**B-VII**.dev

October 13, 2016

- **fizcon** Warnings:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.  
*MAT= 23, MF= 1, MT=451 (1): Ran out of MATs*

```
ERROR(S) FOUND IN MAT= 23, MF= 1, MT=451
ZA SHOULD BE SET TO 1.23000E+02
```

2. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.  
*MAT= 23, MF= 8, MT=457 (4): Missing spectra*

```
ERROR(S) FOUND IN MAT= 23, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

- **fizcon** Errors:

1. Spin should be  $\geq 0.0$   
*MAT= 23, MF= 8, MT=457 (1): Illegal spin (b)*

```
ERROR(S) FOUND IN MAT= 23, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
```

2. Spin should be integral or half integral  
*MAT= 23, MF= 8, MT=457 (2): Illegal spin (a)*

```
ERROR(S) FOUND IN MAT= 23, MF= 8, MT=457
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
```

3. Parity set to illegal value  
*MAT= 23, MF= 8, MT=457 (3): Bad parity*

```
ERROR(S) FOUND IN MAT= 23, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
```